

Epidemiology of TB in Maryland

Alexandra Pyan, MPH

Prevention and Health Promotion Administration

Center for TB Control and Prevention

April 25, 2018



MARYLAND
Department of Health

MISSION AND VISION

MISSION

The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

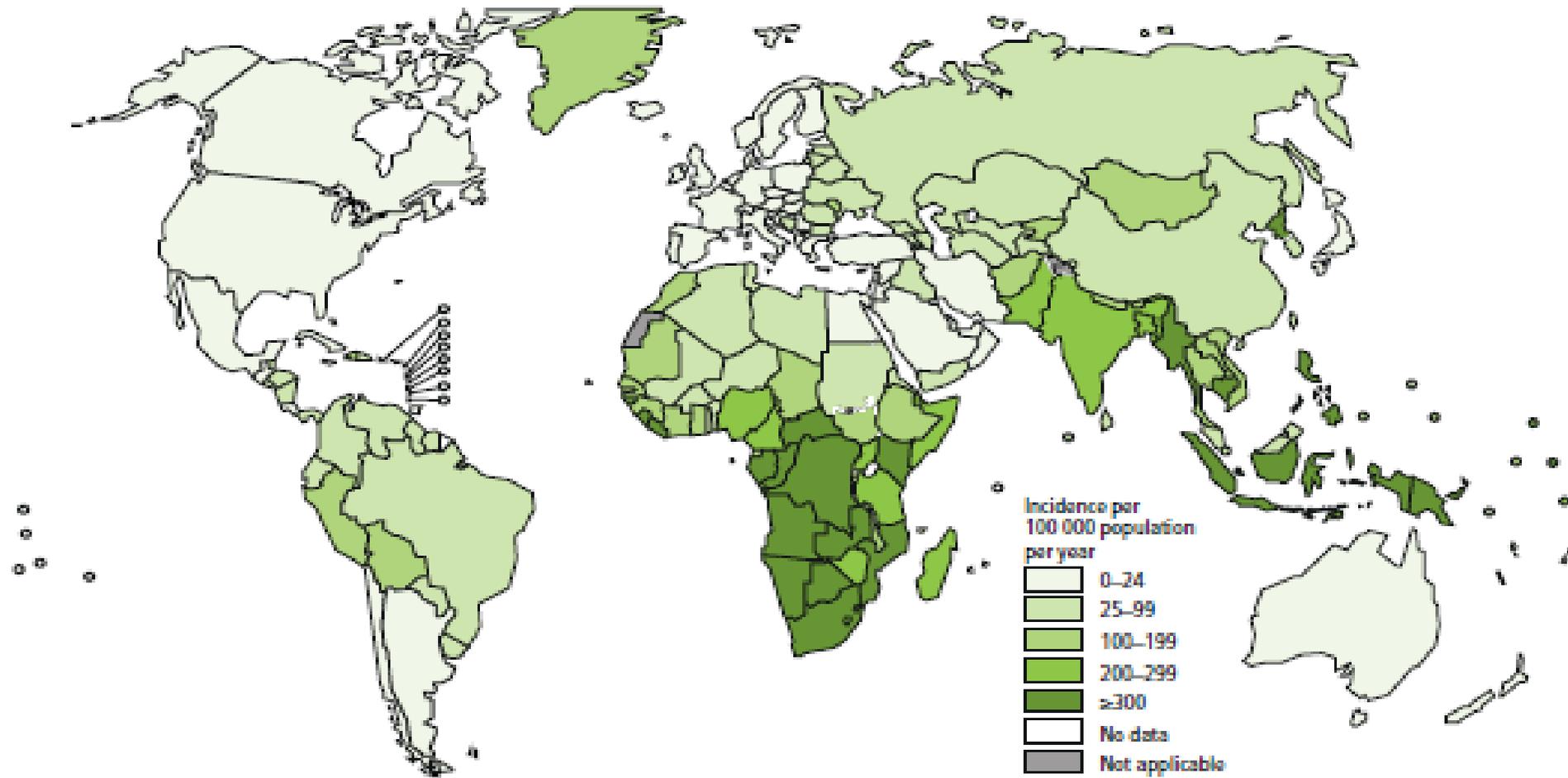
VISION

The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.

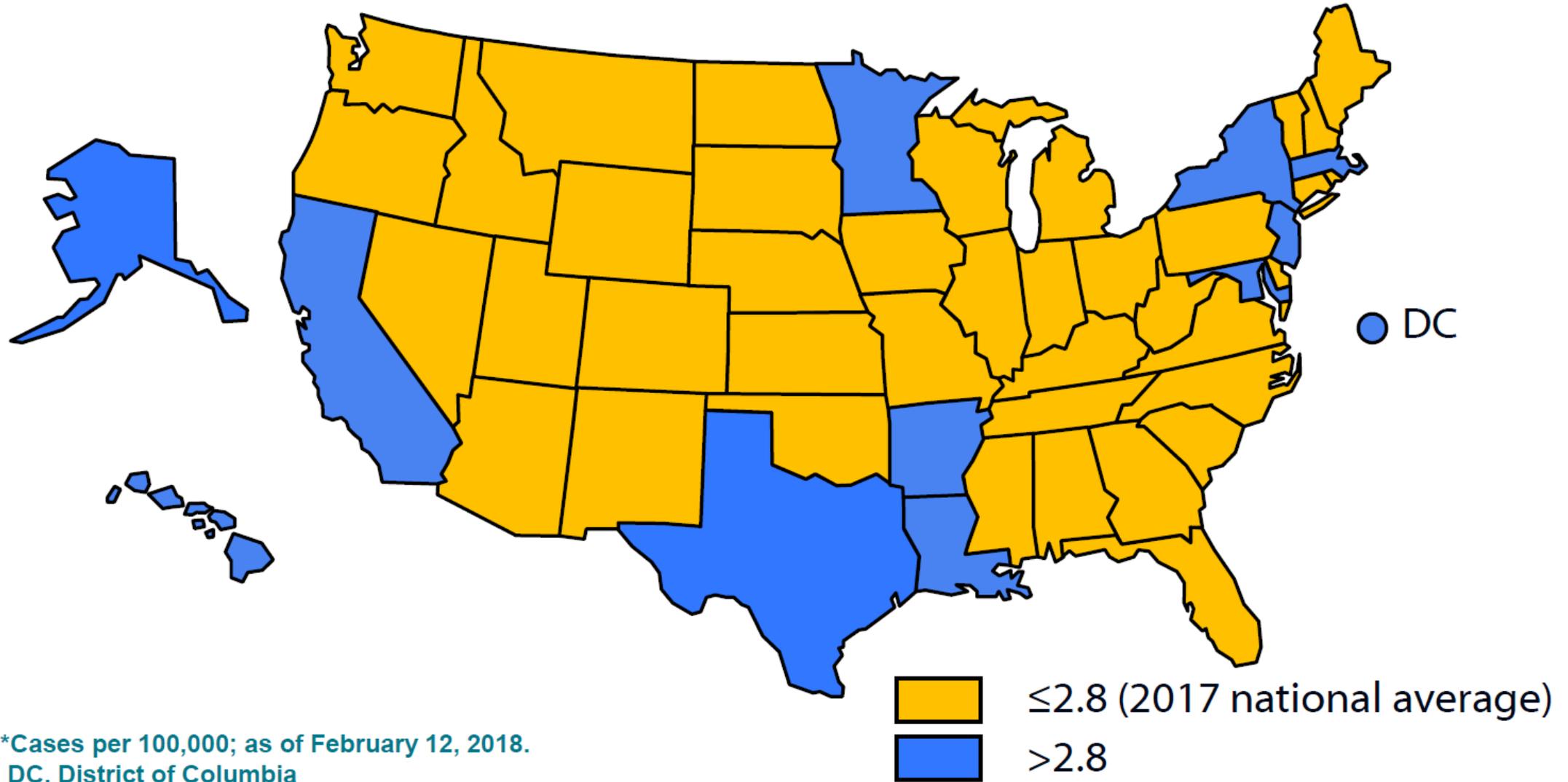
Tuberculosis Globally

- Estimated 10.4 million new cases globally in 2016
- 1.6 million deaths from TB
 - 9TH leading cause of death in the world
 - 1st leading cause for infectious disease deaths
- 490,000 cases of MDR TB

FIG. 3.4
Estimated TB incidence rates, 2016

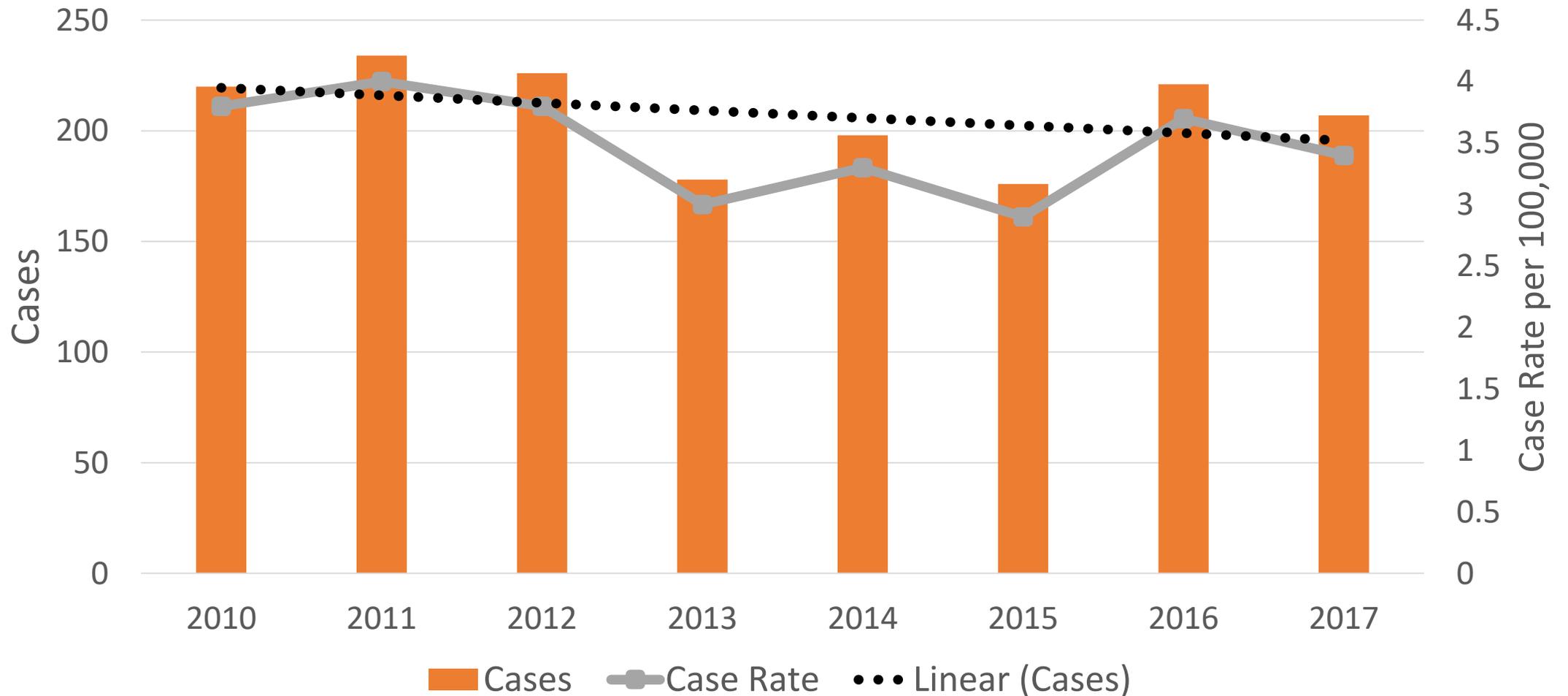


TB Case Rates,* United States, 2017

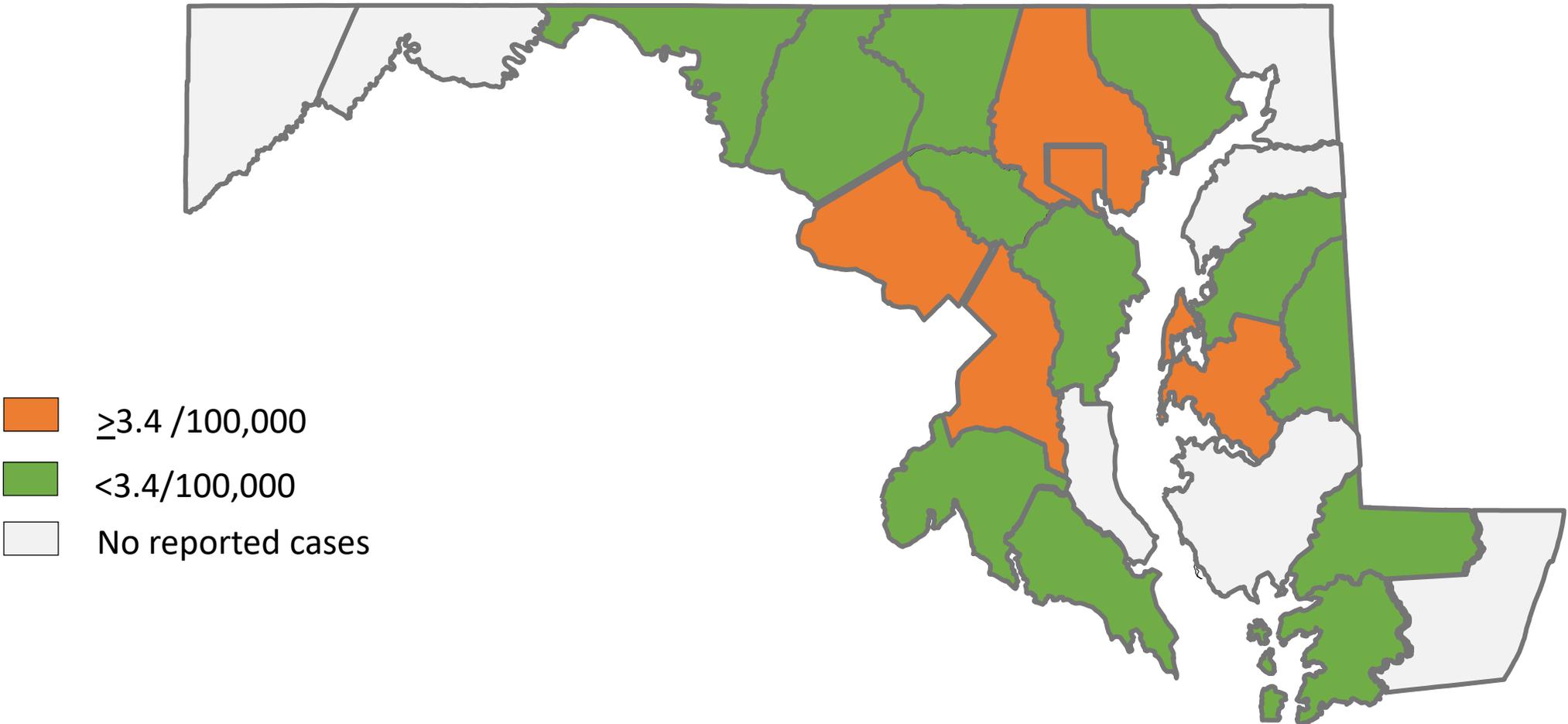


*Cases per 100,000; as of February 12, 2018.
DC, District of Columbia

Maryland TB, 2010-2017

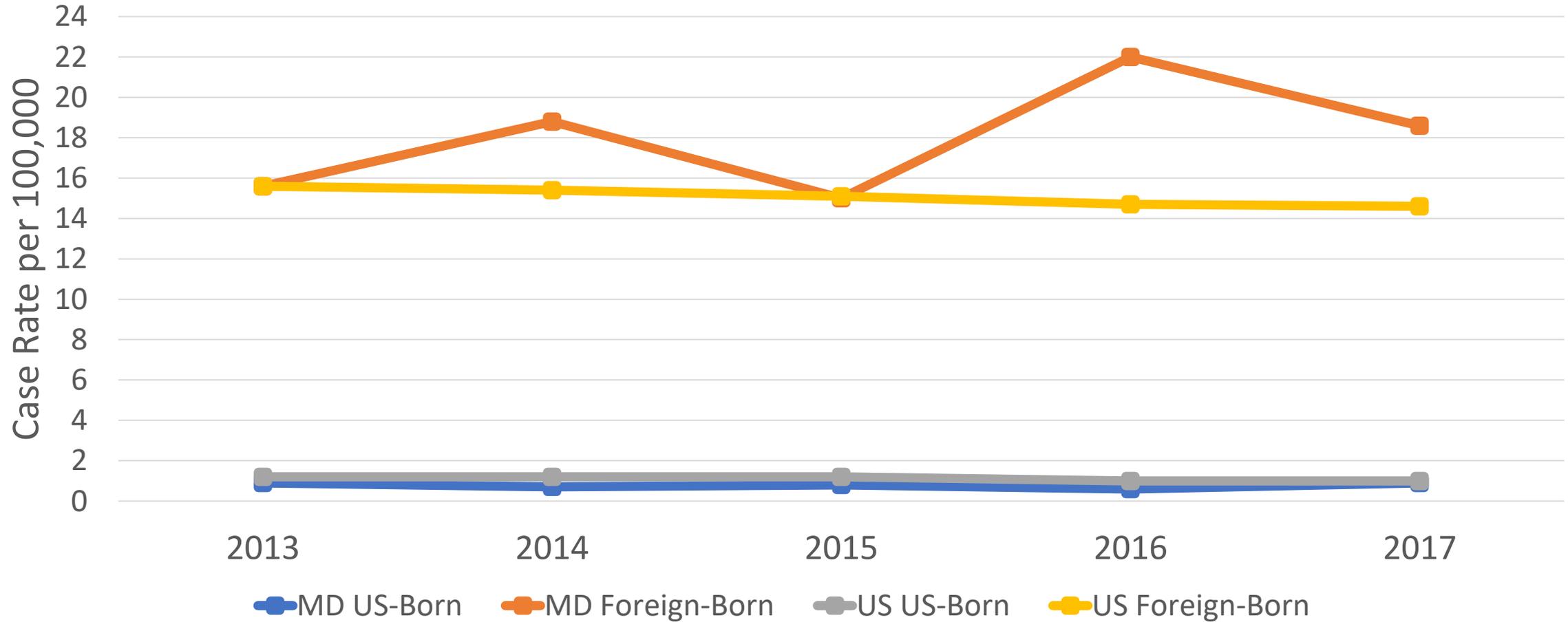


Maryland Case Rates, 2017

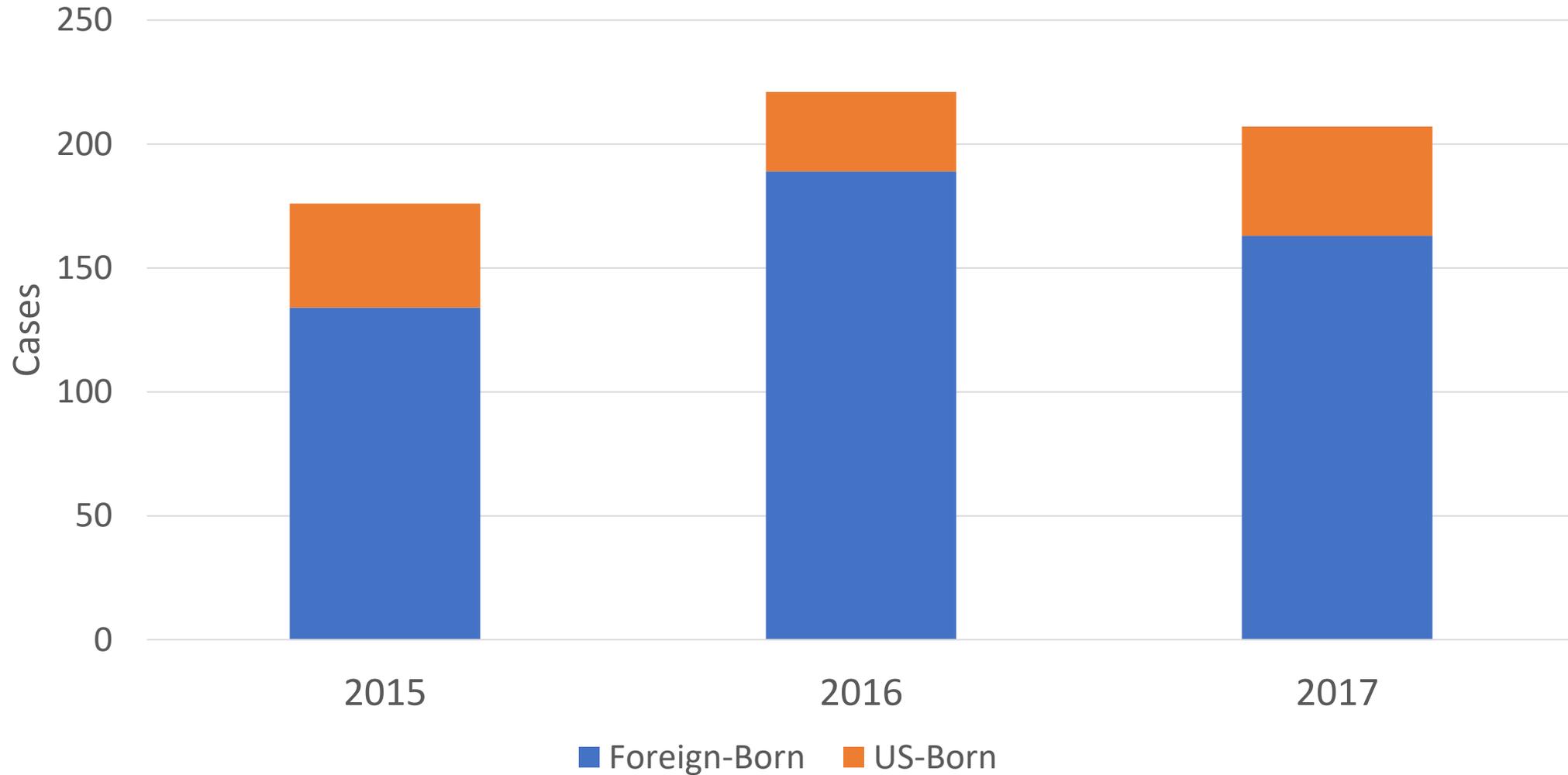


- Orange box: $\geq 3.4 /100,000$
- Green box: $< 3.4 /100,000$
- Light gray box: No reported cases

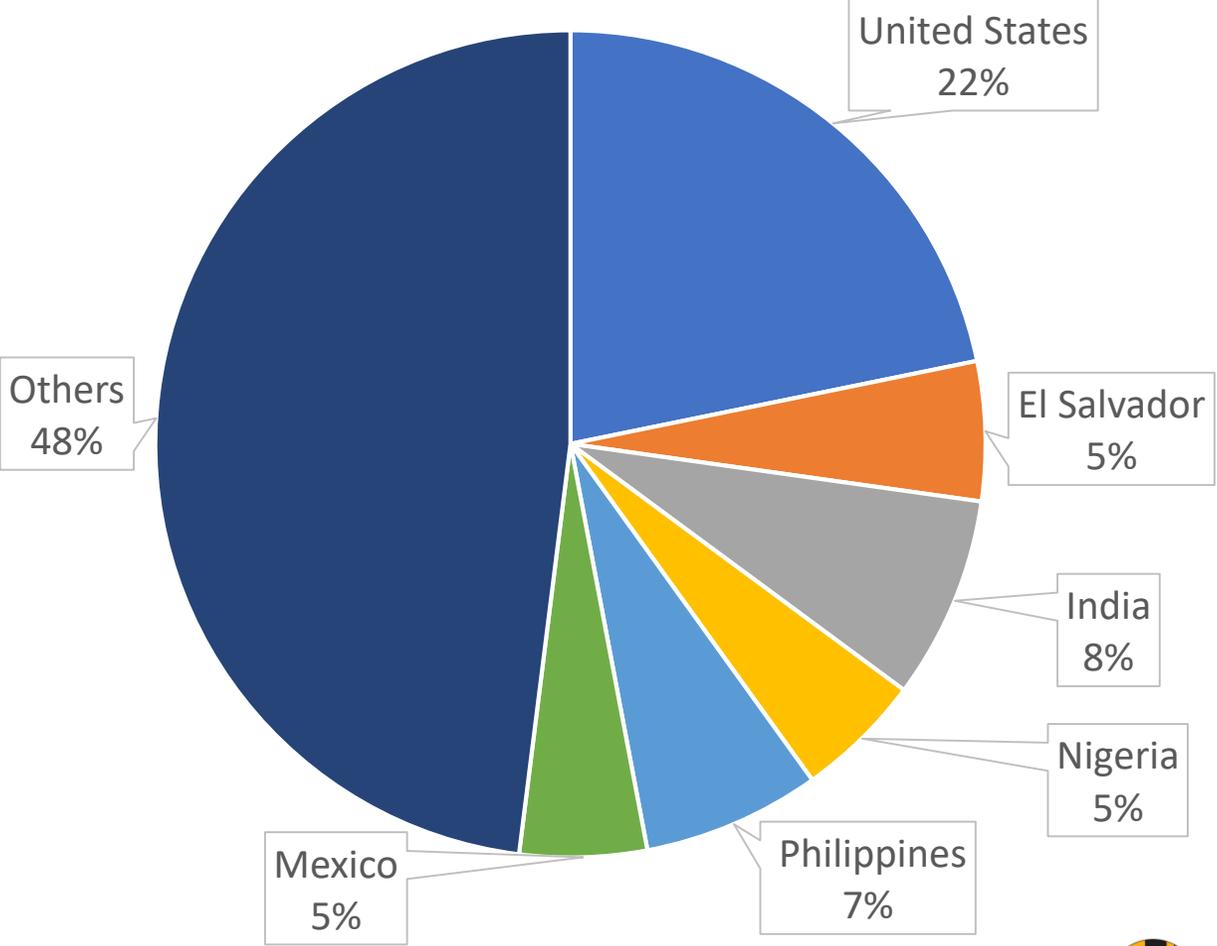
TB Case Rates Among US and Foreign-Born, 2013-2017



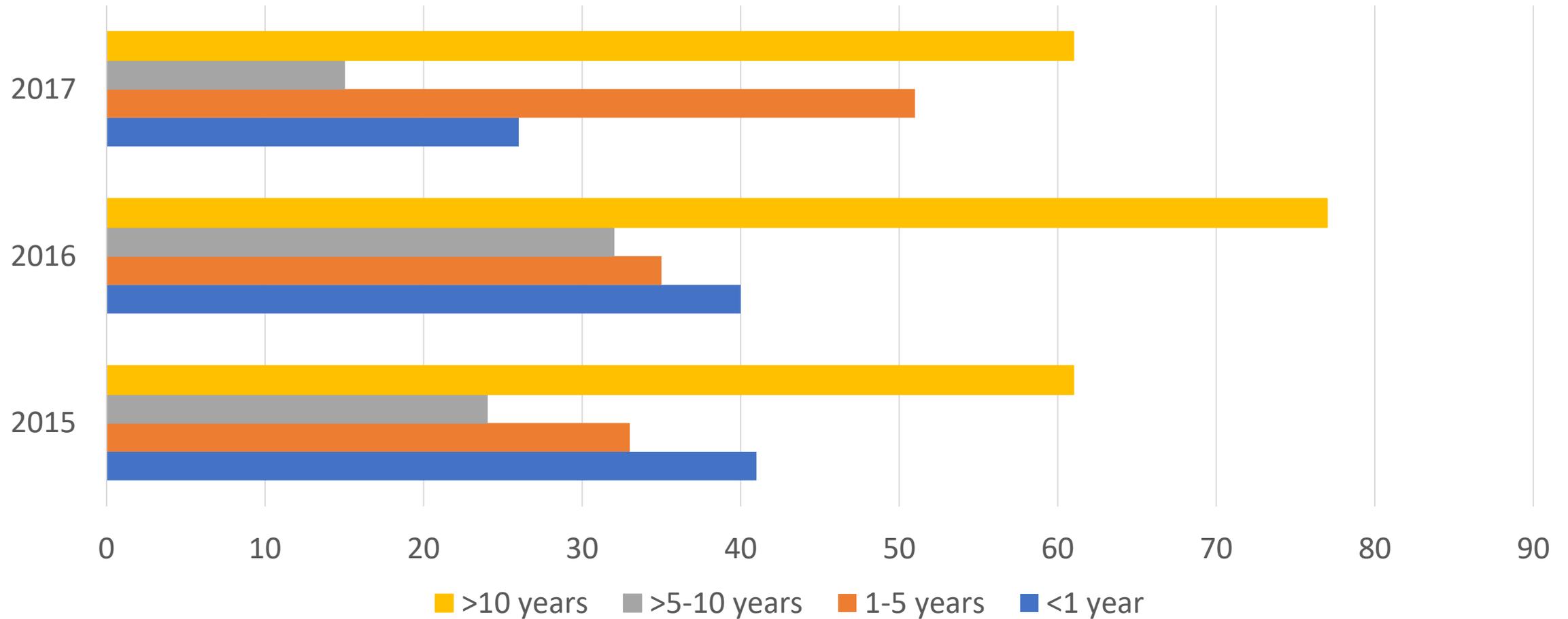
Percent of TB Cases by Origin 2015-2017



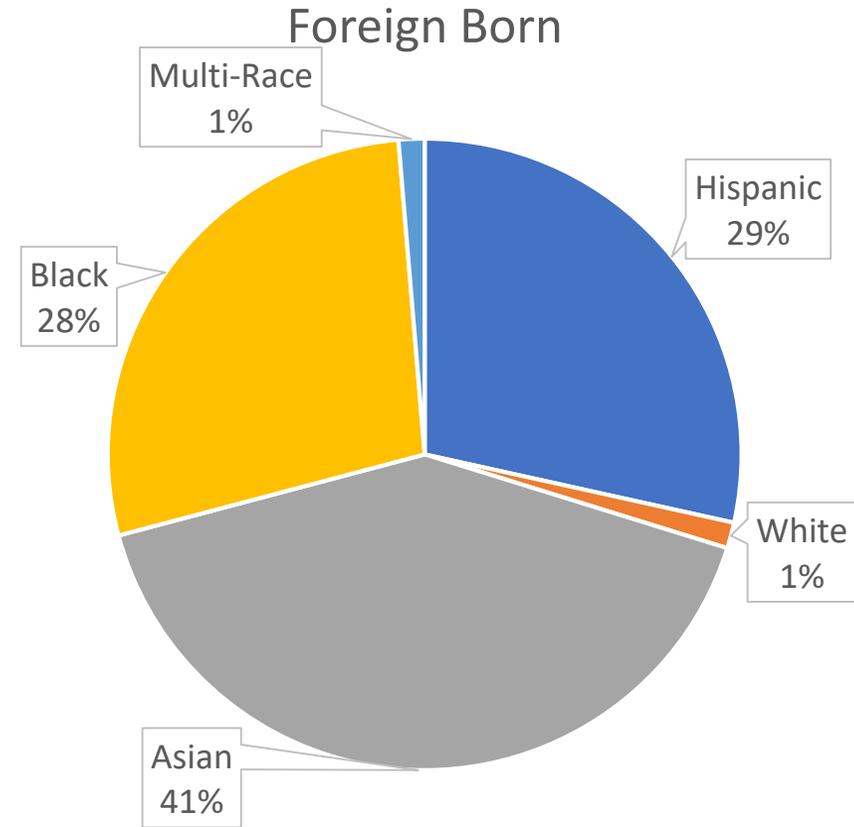
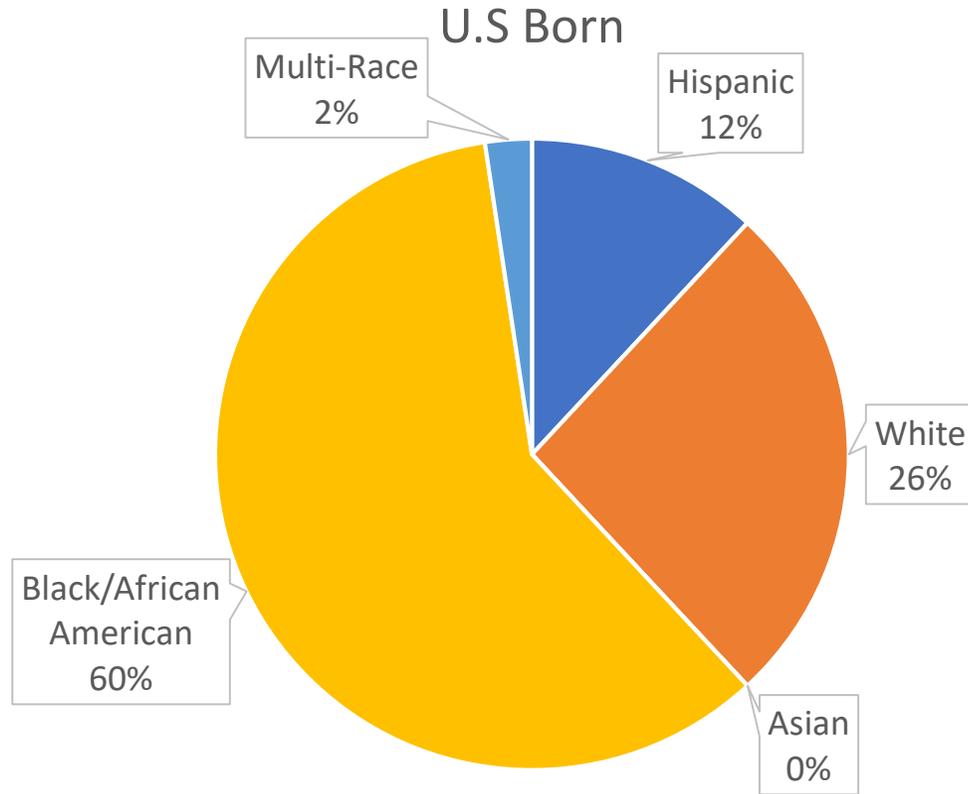
Top Countries of Origin Maryland, 2017



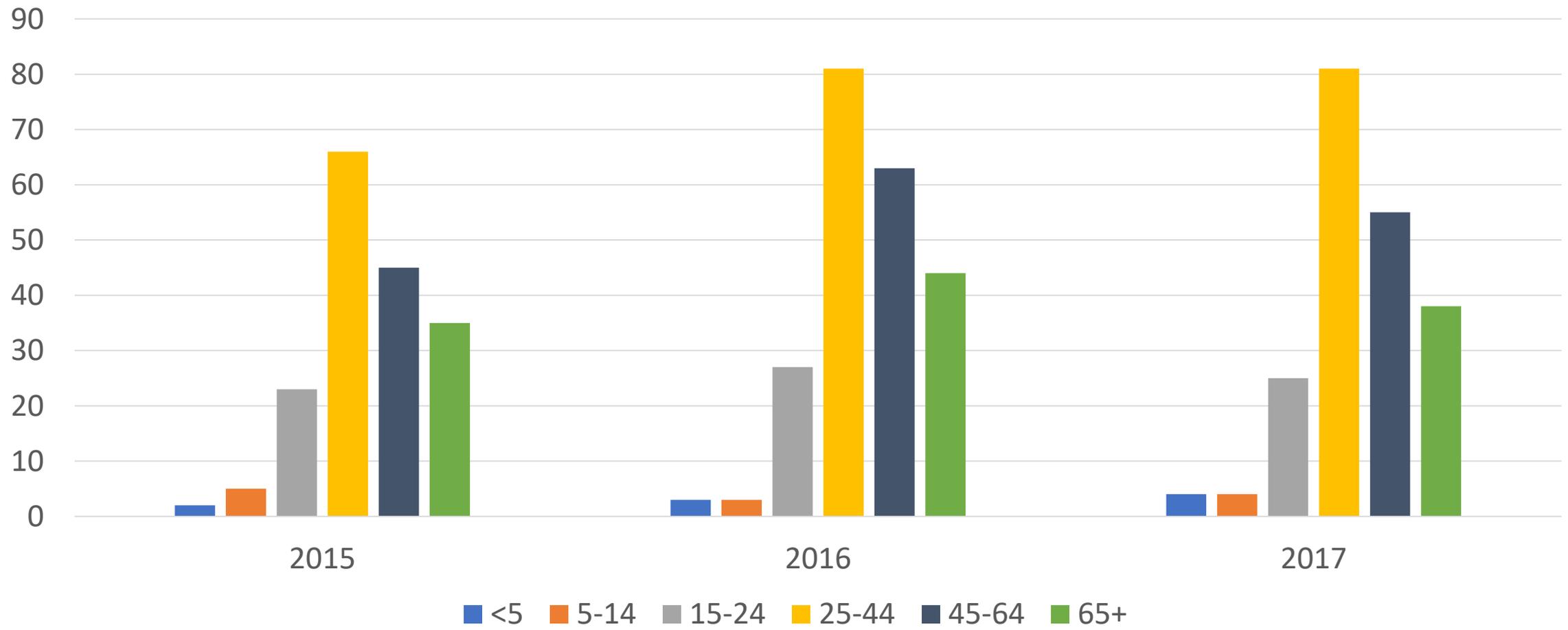
Foreign-born TB Case Numbers, by Time from U.S Arrival to Diagnosis, 2015-2017



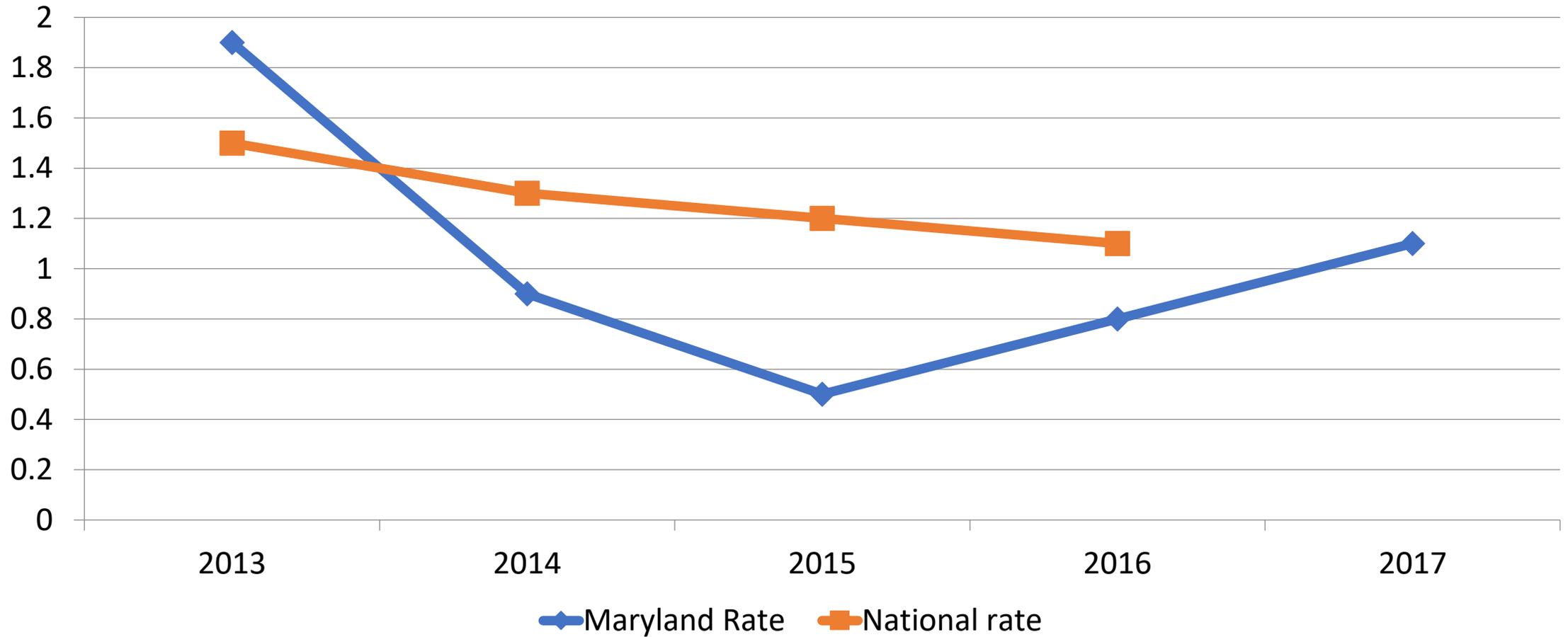
TB Cases by Race and Origin, 2017



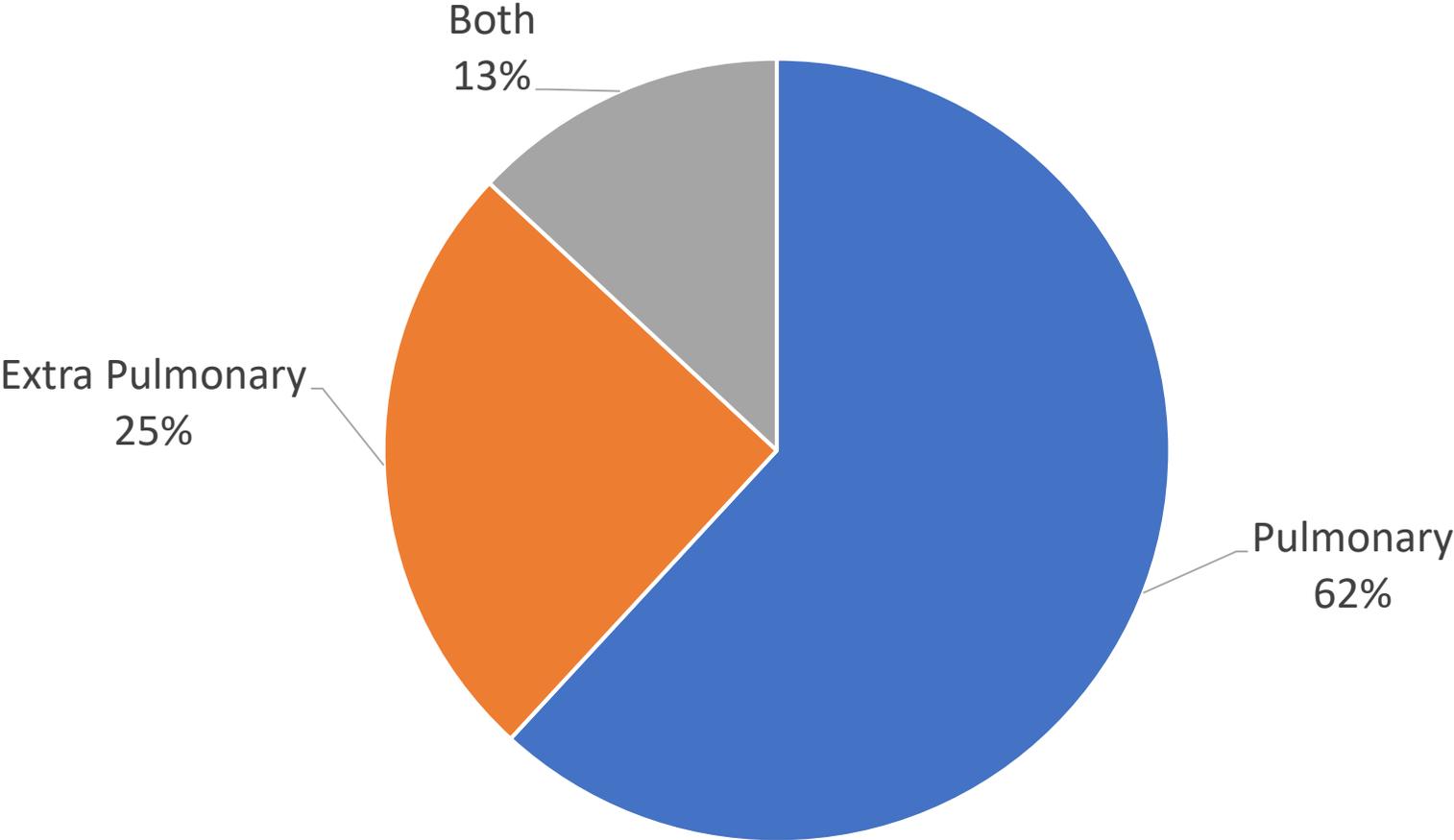
Cases by Age Group, 2015-2017



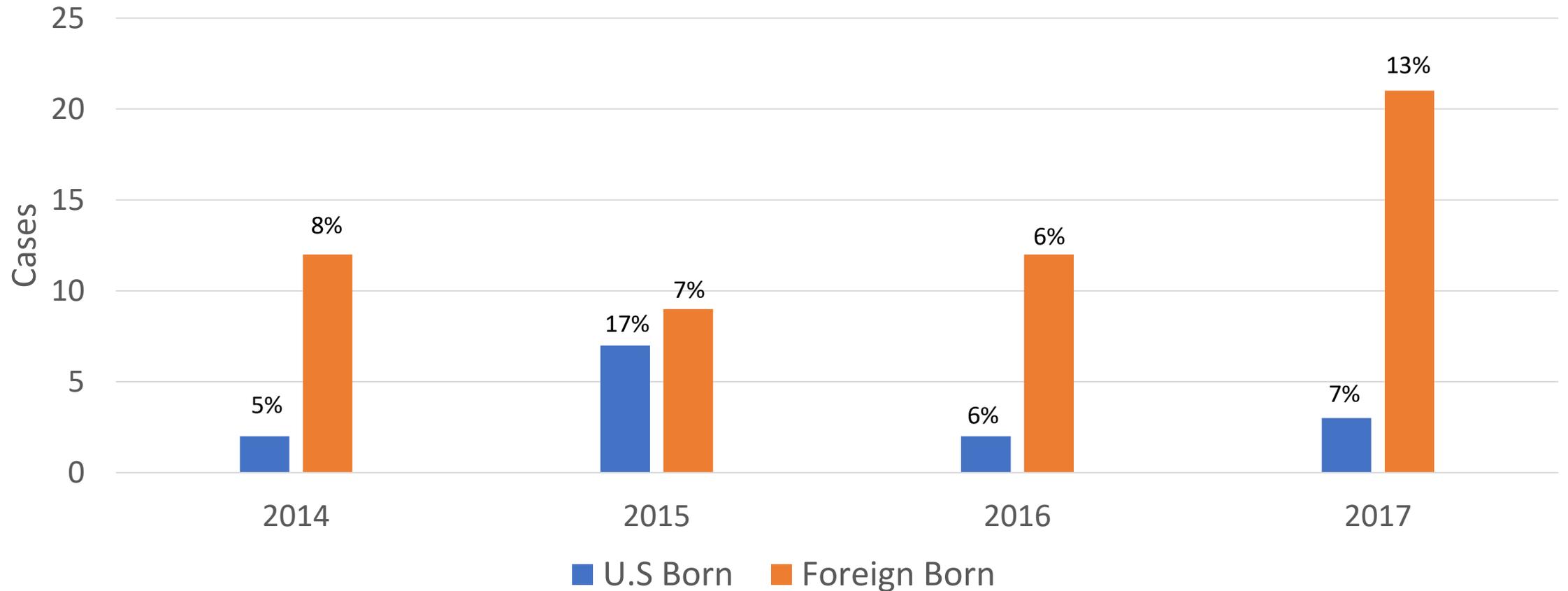
Case rate in Children <5 2013-2017



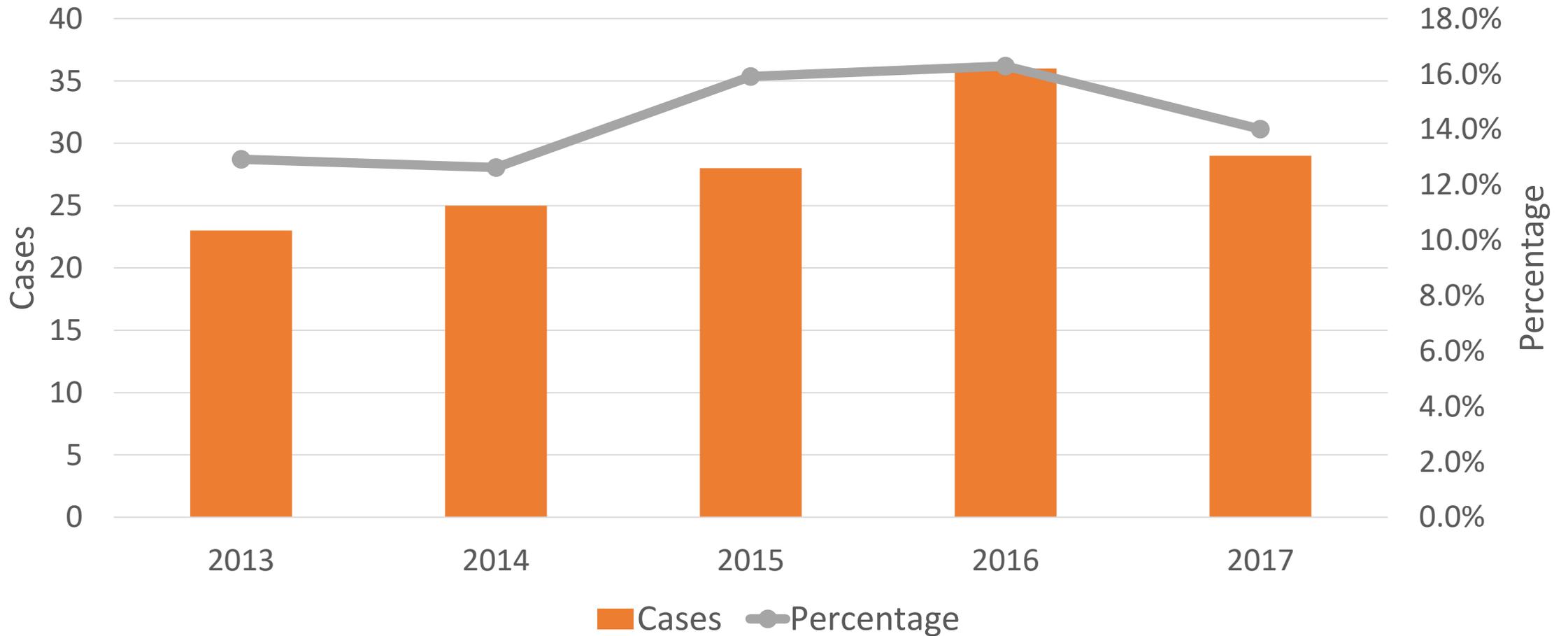
Site of Disease, Maryland 2017



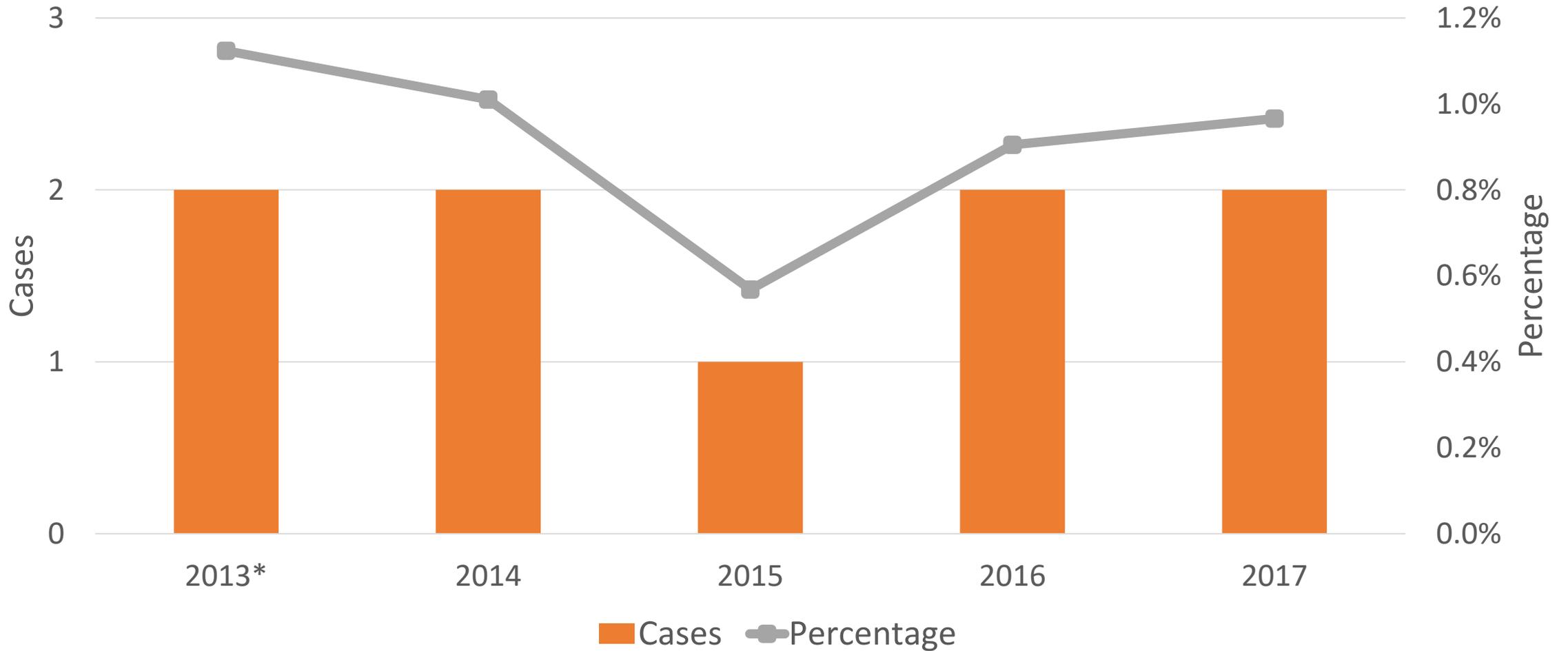
Numbers of TB HIV Co-Infection Origin of Birth, 2014-2017



TB and Diabetes, 2013-2017

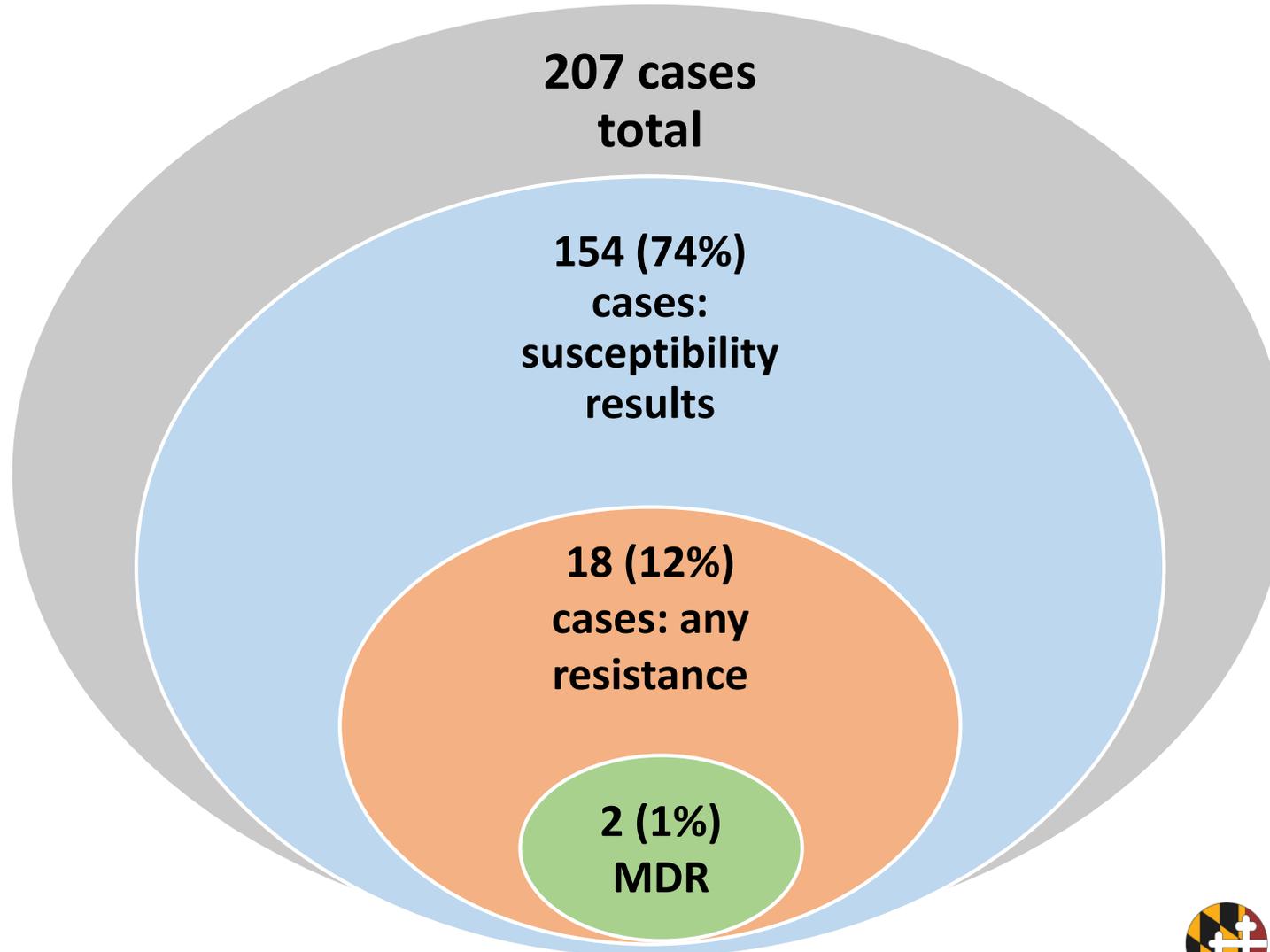


MDR/XDR TB in Maryland, 2013-2017



*One XDR case

Drug resistance in Maryland, 2017



National TB Indicators

Program Objective	National Target 2020	Maryland Target 2020	Maryland 2016
Known HIV Status	98.0	100.0	95.0
Treatment Initiation	97.0	98.0	95.9
Recommended Initial Therapy	97.0	95.0	95.0
Sputum Culture Reported	98.0	100.0	99.4
Sputum Culture Conversion	73.0	75.0	78.3*
Completion of Treatment	95.0	95.0	90.8*
Drug-Susceptibility Results	100.0	100.0	98.8
Universal Genotyping	100.0	100.0	99.4

*2015



**Maryland Department of Health
Prevention and Health Promotion Administration**

<https://phpa.health.maryland.gov>